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OM nucleic - nucleic search, using sw model

Run on: March 30, 2003, 03:17:01 ; Search time 88.2388 Seconds
                                      (without alignments)
                                      13395.488 Million cell updates/sec

Title: US-09-768-781-2
Perfect score: 1389.
Sequence: 1 atgaacacaagacgaccacaaca.........caaggcaaagtgttgctga 1389

Scoring table: IDENTITY_NUC
               Gapop 10.0 , Gapext 1.0

Searched: 574371 seqs, 425486471 residues

Total number of hits satisfying chosen parameters: 1148742

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :   Published Applications NA:*
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              14: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

SUMMARIES

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

Result No.		Score	% Query Match	Length	DB	ID	Description
1		1389	100.0	1389	10	US-09-768-781-2	Sequence 2, Appli
2		1346.8	97.0	1350	10	US-09-768-781-1	Sequence 1, Appli
3		748.8	53.9	17993	10	US-09-768-781-5	Sequence 5, Appli
4		515.4	37.1	531	9	US-09-092-154-106	Sequence 106, App
5		515.4	37.1	531	10	US-09-764-847-106	Sequence 106, App
6		291.2	21.0	5096	10	US-09-962-436-564	Sequence 564, App
7		272.2	19.6	668	10	US-09-864-761-16902	Sequence 16902, A
8		176.8	12.7	471	10	US-09-864-761-62	Sequence 62, Appl
9	c	162	11.7	384	10	US-09-864-761-21423	Sequence 21423, A
10	c	142	10.2	498	10	US-09-864-761-4683	Sequence 4683, Ap
11		73.2	5.3	294	10	US-09-864-761-19197	Sequence 19197, A
12		65	4.7	477	10	US-09-864-761-2467	Sequence 2467, Ap
13	c	51.6	3.7	486	10	US-09-864-761-10062	Sequence 10062, A
14		45	3.2	832	10	US-09-764-877-853	Sequence 853, App
15		38.8	2.8	6799	9	US-09-902-941-1883	Sequence 1883, Ap
16	c	38.8	2.8	6799	9	US-09-849-626-1883	Sequence 1883, Ap
17	c	38.8	2.8	6799	9	US-10-017-754-1883	Sequence 1883, Ap
18	c	38	2.7	3504	9	US-09-822-846-143	Sequence 143, App
19	c	38	2.7	3504	9	US-09-822-846-144	Sequence 144, App
20	c	35.2	2.5	9822	10	US-09-853-386-25	Sequence 25, Appl
21		35	2.5	1940	12	US-10-044-090-275	Sequence 275, App
22		34.8	2.5	2120	10	US-09-801-574-29	Sequence 29, Appl
23	c	34.2	2.5	3163	9	US-09-822-846-213	Sequence 213, App
24	c	34.2	2.5	4474	9	US-09-909-567B7	Sequence 7, Appli
25		34	2.4	170834	10	US-09-835-232-7	Sequence 1, Appli
26		34	2.4	536165	9	US-09-939-964-1	Sequence 473, App
27		33.6	2.4	22756	9	US-10-091-572-473	Sequence 13139, A
28		33.4	2.4	592	10	US-09-864-761-13139	Sequence 12, Appl
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31		33.2	2.4	456	10	US-09-864-761-11468	Sequence 264, App
32		33.2	2.4	4030	10	US-09-070-927A-264	Sequence 35, Appl
33		33	2.4	1148	10	US-09-893-737-35	Sequence 10, Appl
34	c	33	2.4	4689	10	US-09-895-652-10	Sequence 2, Appli
35		33	2.4	5173	10	US-09-811-045A-2	Sequence 19, Appl
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37	c	32.8	2.4	5598	10	US-09-938-842A-1436	Sequence 25, Appl
38	c	32.8	2.4	42000	9	US-10-081-563-25	Sequence 3, Appli
39	c	32.8	2.4	397658	10	US-09-813-320-3	Sequence 1, Appli
40	c	32.8	2.4	465237	10	US-09-933-267A-1	Sequence 1, Appli
41		32.6	2.3	222	10	US-09-915-060-1	Sequence 2, Appli
42	c	32.6	2.3	222	10	US-09-915-060-2	Sequence 332, App
43		32.6	2.3	520	10	US-10-184-644-332	Sequence 2054, Ap
44	c	32.6	2.3	633	10	US-09-867-701-2054	Sequence 6, Appli
45	c	32.6	2.3	660	10	US-09-915-060-6	

ALIGNMENTS

RESULT 1
US-09-768-781-2
; Sequence 2, Application US/0976781
; Patent No. US20020142376A1
; GENERAL INFORMATION:
; APPLICANT: MERKULOV, Gennady V. et al
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL001057-CIP
; CURRENT APPLICATION NUMBER: US/09/768,781
; CURRENT FILING DATE: 2001-01-25
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1389
; TYPE: DNA
; ORGANISM: Human
US-09-768-781-2

Query Match   100.0%; Score 1389; DB 10; Length 1389;
Best Local Similarity   100.0%; Pred. No. 0;
Matches 1389; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy   61 CCTGAGGAGGCCAAATGTGATCCGGTTTCATCTCTGGAGGAAGATGTCATCCGTGGAGCC 120
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Qy   121 AACCCCGATTTACTTTTCCATTTAGCATCCTTTTCTCCACCTTTTTGTACTGTGGGGAG 180
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Qy   181 GCTGCATCTGCTTTGTACATGGTTAGAACTATCGAAAGAATAGTGAAACTTACTCGATG 240
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Qy   241 ACATACACCTTTCTTCTTATGTTTCTTATGTTTCATCATTATGTCCAGTTGACCCTCATTTTT 300
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Qy   1381 GTGTCTGA 1389
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Db   1381 GTGTCTGA 1389

RESULT 2
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; Sequence 1, Application US/09768781
; Patent No. US2002014376A1
; GENERAL INFORMATION:
; APPLICANT: MERKULOV, Gennady V. et al
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL001057-CIP
; CURRENT APPLICATION NUMBER: US/09/768,781
; CURRENT FILING DATE: 2001-01-25
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1350
; TYPE: DNA
; ORGANISM: Human
US-09-768-781-1

Query Match             97.0%;  Score 1346.8;  DB 10;  Length 1350;
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Matches  1348;  Conservative    0;  Mismatches   2;  Indels   0;  Gaps   0;

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Qy    100 GAAGATGTCATCCGTGGAGCCAACCCCGATTTACTTTCCATTTAGCATCTTTTCTCC    159
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Db     61 GAAGATGTCATCCGTGGAGCCAACCCCGATTTACTTTCCATTTAGCATCCTTTTCTCC    120

Qy    160 ACCTTTTGTACTGTGGGGAGGCTCGATCTGCTTGTACAACCTTGTAGAATCTATCGAAAG 219
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Qy    220 AATAGTGAAACTTACTGATGACATACACCTTTTCTTTCTTATGTTTTCATCCATTATG   279
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Qy    460 ATGCTAATAGATGGCGAGGAGGTGCTGATAGAATGGGAGGTGGGGCCACTCCATCCGGACC 519
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Qy    520 CTGGCTATGCAATGCCTACAAACGTATCCAAGCCTTCCTGGGCTCA              579
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Db    481 CTGGCTATGCAATGCCTACAAACGTATCCAAGCCTTCCTGGGCTCA              540

Qy    580 GTGCCCCAGCTGACCTATCAGCTCTATGTGAGCCTGATCTCGTCACCTATGGGGCCACCCTGGGT 639
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Qy    640 AGAGTTGTGCTAATGGTATTTCCCTGTATCTGGTATCTGCACCCTTTGCAAT         699
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Db    241 ACATACACCTTTCTTTCTTTATGTTTCATCCATTATGGTCCAGTTGACCCTCATTTTT    300

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Qy    781 ACATTGGAGATCACTTCCCGCGCCTCCTGATTCGGTGCTGTTCTCAGCCACTTGAAATTG 840
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Qy    841 AAGGCTGTGCCCTTCCTAGTGCTCAACTTCCTGATCATCCTTCTTGAGCCCTGGATTAAG 900
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Qy    901 TTCTGGAGAAGTGGTGCCCAGATGCCCAATAACATTGAGAAAAACTTCAGCCGGGGTCGGC 960
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Db    901 TTCTGGAGAAGTGGTGCCCAGATGCCCAATAACATTGAGAAAAACTTCAGCCGGGGTCGGC 960

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Db    961 ACTCGTGTGGTCCTGATTTCAGTCAGTTCAGTGAAATTACTGTCATGCTGGCATCACATCCTATGCTGG 1020

Qy   1021 TCAGCTTTGCAGTTGAGGTTGGCGACAGCAGAGATCTCGTCGTCGACAAAGGGCAGAACTGGGGA 1080
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Db   1021 TCAGCTTTGCAGTTGAGGTTGGCGACAGCAGAGATCTCGTCGTCGACAAAGGGCAGAACTGGGGA 1080

Qy   1081 CATATGGGCCTGCACTATAGTGTGAGGTTGGTAGAATGTGATCATGTCATCGTTGGTTTTT 1140
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Qy   1201 ATTATTGCTTATCTGATTGGCTTCATGGCTCTTCTTCTTCTTCCAGTACTTGCATCCA     1260
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Db   1321 CACCCTCCGGACCAGGGTTGAGACTCAGAGAGCAGCAGGTTGAGACTCAGAGAGCAGCAAAGT 1380
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Best Local Similarity 97.2%;   Pred. No. 8.8e-229;
Matches 762;   Conservative 0; Mismatches 22; Indels 0; Gaps 0;

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Qy   666 GGTATCTGTCACCTATGGGCGCCACCCTTGCAATATGTGGCTATCCAGATCAAGTACGA 725
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Db 15270 GGTATCTGTCACCTATGGGCGCCACCCTTGCAATATGTGGCTATCCAGATCAAGTACGA 15329

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Db 15330 TGACTACAAGATTCGCCTGGGCCACTAGAAGTCCTCTGCATCACCATCTGGCGGCACATT 15389

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Db 15390 GGAGATCACTTCCCGCCTCCTGATTCTGGTGCTCTTCCAGCCACTTGAAATTGAAGGC 15449

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Db 15450 TGTGCCCTTCCTAGTGCTCAACTTCCTGATCATCCTTTGAGCCCTGATTAAGTTCTG 15509

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Db 15510 GAGAAGTGGTGCCCAGATGCCCAATAACATTGAGAAAAACTTCAGCCGGGTCGGCACTCT 15569

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          ||||
Db 15990 CTGA 15993

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Db   661 ATGTTGGCTATCCAGATCCAGATCAAGTACGACGATGACTACAAGAATTCGCCTTGGGCCACTAGAAGTC 720

Qy   760 CTCTGCATCACCATCTGGCGGCGGACATTGGAGATCACTTCCCGCCTCCTGATTCTGGTGCTC 819
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          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   781 TTCTCCAGCCACTTTGAAAATTGAAGGCTGTGCCCTTCCTAGTGCTCAACTTCCTGATCATC 840

Qy   880 CTCTTTGAGCCCTGGATTAAGTTCTGGAGAAGTGGTGCCCAGATGCCCAATAACATTGAG 939
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   841 CTCTTTGAGCCCTGGATTAAGTTCTGGAGAAGTGGTGCCCAGATGCCCAATAACATTGAG 900

Qy   940 AAAAACTTCAGCCGCGGGTCGGCACTCTGGTGTGTCCTGATTTCAGTCACCATCCTCTATGCT 999
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   901 AAAAACTTCAGCCGCGGGTCGGCACTCTGGTGTGTCCTGATTTCAGTCACCATCCTCTATGCT 960

Qy   1000 GGCATCAACTTCTCTTGCTGGTCAGCTTTGCAGTTGGCAGACAGAGATCTCGTC 1059
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   961 GGCATCAACTTCTCTTGCTGGTCAGCTTTGCAGTTGGCAGACAGAGATCTCGTC 1020

Qy   1060 GACAAAGGGCAGAACTGGGACATATGGGCGACTATAGTGTGAGGTTGGTAGAGAAT 1119
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1021 GACAAAGGGCAGAACTGGGACATATGGGCGACTATAGTGTGAGGTTGGTAGAGAAT 1080

Qy   1120 GTGATCATGGTCTTGGTTTTAAGTTCTTTGGAGTGAAAGTGTTACTACTGTCAT 1179
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1081 GTGATCATGGTCTTGGTTTTAAGTTCTTTGGAGTGAAAGTGTTACTACTGTCAT 1140

Qy   1180 TCCTTGATTGCCTTGCAGCTCATTATTGCTTATCTGATTTCCATTGGCTTCATGCTCCTT 1239
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1141 TCCTTGATTGCCTTGCAGCTCATTATTGCTTATCTGATTTCCATTGGCTTCATGCTCCTT 1200

Qy   1240 TTCTTCCAGTACTTGCATCCATTGCGCTCACTCTTCACCCATAATGTAGTAGACTACCTC 1299
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1201 TTCTTCCAGTACTTGCATCCATTGCGCTCACTCTTCACCCATAATGTAGTAGACTACCTC 1260

Qy   1300 CATTGTGTCGTGTCACCAGCACCCTCGGACCAGGGTTGAGAACTCAGAGCCACCCTTT 1359
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1261 CATTGTGTCGTGTCACCAGCACCCTCGGACCAGGGTTGAGAACTCAGAGCCACCCTTT 1320

Qy   1360 GAGACTGAAGCAAGGCAAAGTGTTGTCTGA 1389
          ||||||||||||||||||||||||||||||
Db   1321 GAGACTGAAGCAAGGCAAAGTGTTGTCTGA 1350

RESULT 3
US-09-768-781-5
; Sequence 5, Application US/09768781
; Patent No. US2002014237GA1
; GENERAL INFORMATION:
; APPLICANT: MERKULOV, Gennady v. et al
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL001057-CIP
; CURRENT APPLICATION NUMBER: US/09/768,781
; CURRENT FILING DATE: 2001-01-25
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 17993
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(17993)
; OTHER INFORMATION: n = A,T,C or G
US-09-768-781-5

RESULT 4
US-10-092-154-106
; Sequence 106, Application US/10092154
; Publication No. US20030054375A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC009C1
; CURRENT APPLICATION NUMBER: US/10/092,154
; CURRENT FILING DATE: 2002-03-07
; NUMBER OF SEQ ID NOS: 2003

; Prior Application removed - See File Wrapper or Palm
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 106
; LENGTH: 531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-092-154-106

Query Match   37.1%; Score 515.4; DB 9; Length 531;
Best Local Similarity 98.7%; Pred. No. 6.6e-155;
Matches 524; Conservative 5; Mismatches 1; Indels 1; Gaps 1;

Qy   786 GGAGATCACTTCCCGCCTCCTGATTCGGTGCTCTTCTCAGCCACTTGAAATTGAAGGC 845
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   2 GGAGATCACTTCCCGCCTCCTGATTCGGTGCTCTTCTCAGCCACTTGAAATTGAAGGC 61

Qy   846 TGTGCCCTTCCTAGTGCTCAACTTCCTGATCATCCTCTTGAGCCCTGGATTAAGTTCTG 905
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   62 TGTGCCCTTCCTAGTGCTCAACTTCCTGATCATCCTCTTGAGCCCTGGATTAAGTTCTG 121

Qy   906 GAGAAGTGGTGCCCAGATGCCCAATAACATTGAGAAAAACTTCAGCCGGGTCGGCACTCT 965
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   122 GAGAAGTGGTGCCCAGATGCCCAATAACATTGAGAAAAACTTCAGCCGGGTCGGCACTCT 181

Qy   966 GGTGGTCCTGATTTCAGTCACCATCCTCTATGCTGGCATCAACTTCTCTTGCTGGTCAGC 1025
             ||||| |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   182 GGTGG-CCTGATTTCAGTCACCATCCTCTATGCTGGCATCAACTTCTCTTGCTGGTCAGC 240

Qy   1026 TTTGCAGTTGAGGTTGGCAGACAGAGATCTCGTCGACAAAGGGCAGAACTGGGGACATAT 1085
             ||||||||||||||||||||||||| ||||||||||||||||||||||||||||||||||
Db   241 TTTGCAGTTGAGGTTGGCAGACAGAGATCTCGTYGACAAAGGGCAGAACTGGGGACATAT 300

Qy   1086 GGGCCTGCACTATAGTGTGAGGTTGGTAGAGAATGTGATCATGGTCTTGGTTTTTAAGTT 1145
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 GGGCCTGCACTATAGTGTGAGGTTGGTAGAGAATGTGATCATGGTCTTGGTTTTTAAGTT 360

Qy   1146 CTTTGGAGTGAAAGTGTTACTGAATTACTGTCATTCCTTGATTGCCTTGCAGCTCATTAT 1205
             ||:|||||||||||||||||||||||||||:||||||||||||||||||||||||||||
Db   361 CTWTGGAGTGAAAGTGKTACTGAATTACTGTCATYCCTTGAWTGCCTTGCAGCTCATTAT 420

Qy   1206 TGCTTATCTGATTTCCATTGGCTTCATGCTCCTTTCTTCCAGTACTTGCATCCATTGCG 1265
             |||||||||||||||||||||||||||||||||||:|||||||||||||||||||||||
Db   421 TGCTTATCTGATTTCCATTGGCTTCATGCTCCTTTCTTCCAGTACTTGCATCCATTGCG 480

Qy   1266 CTCACTCTTCACCCATAATGTAGTAGACTACCTCCATTGTGTCTGCTGTCA 1316
             |||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481 CTCACTCTTCACCCATAATGTAGTAGACTACCTCCATTGTGTCTGCTGTCA 531

RESULT 5
US-09-764-847-106
; Sequence 106, Application US/09764847
; Patent No. US2002013767A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC009
; CURRENT APPLICATION NUMBER: US/09/764,847
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 2003
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 106
; LENGTH: 531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-847-106

Query Match   37.1%; Score 515.4; DB 10; Length 531;
Best Local Similarity 98.7%; Pred. No. 6.6e-155;
Matches 524; Conservative 5; Mismatches 1; Indels 1; Gaps 1;

Qy   786 GGAGATCACTTCCCGCCTCCTGATTCGGTGCTCTTCTCAGCCACTTGAAATTGAAGGC 845

; Prior Application removed - See File Wrapper or Palm

Db   2 GGAGATCACTTCCCGCCTCCTGATTCGGTGCTCTTCTCAGCCACTTGAAATTGAAGGC 61

Qy   846 TGTGCCCTTCCTAGTGCTCAACTTCCTGATCATCCTCTTGAGCCCTGGATTAAGTTCTG 905
Db   62 TGTGCCCTTCCTAGTGCTCAACTTCCTGATCATCCTCTTGAGCCCTGGATTAAGTTCTG 121

Qy   906 GAGAAGTGGTGCCCAGATGCCCAATAACATTGAGAAAAACTTCAGCCGGGTCGGCACTCT 965
Db   122 GAGAAGTGGTGCCCAGATGCCCAATAACATTGAGAAAAACTTCAGCCGGGTCGGCACTCT 181

Qy   966 GGTGGTCCTGATTTCAGTCACCATCCTCTATGCTGGCATCAACTTCTCTTGCTGGTCAGC 1025
Db   182 GGTGG-CCTGATTTCAGTCACCATCCTCTATGCTGGCATCAACTTCTCTTGCTGGTCAGC 240

Qy   1026 TTTGCAGTTGAGGTTGGCAGACAGAGATCTCGTCGACAAAGGGCAGAACTGGGGACATAT 1085
Db   241 TTTGCAGTTGAGGTTGGCAGACAGAGATCTCGTYGACAAAGGGCAGAACTGGGGACATAT 300

Qy   1086 GGGCCTGCACTATAGTGTGAGGTTGGTAGAGAATGTGATCATGGTCTTGGTTTTTAAGTT 1145
Db   301 GGGCCTGCACTATAGTGTGAGGTTGGTAGAGAATGTGATCATGGTCTTGGTTTTTAAGTT 360

Qy   1146 CTTTGGAGTGAAAGTGTTACTGAATTACTGTCATTCCTTGATTGCCTTGCAGCTCATTAT 1205
Db   361 CTWTGGAGTGAAAGTGKTACTGAATTACTGTCATYCCTTGAWTGCCTTGCAGCTCATTAT 420

Qy   1206 TGCTTATCTGATTTCCATTGGCTTCATGCTCCTTTCTTCCAGTACTTGCATCCATTGCG 1265
Db   421 TGCTTATCTGATTTCCATTGGCTTCATGCTCCTTTCTTCCAGTACTTGCATCCATTGCG 480

Qy   1266 CTCACTCTTCACCCATAATGTAGTAGACTACCTCCATTGTGTCTGCTGTCA 1316
Db   481 CTCACTCTTCACCCATAATGTAGTAGACTACCTCCATTGTGTCTGCTGTCA 531

RESULT 6
US-09-962-436-564
; Sequence 564, Application US/09962436
; Patent No. US2002008 1301A1
; GENERAL INFORMATION:
; APPLICANT: Soppet, Daniel
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689290-75
; CURRENT APPLICATION NUMBER: US/09/962,436
; CURRENT FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/60/235,082
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/234,924
; PRIOR FILING DATE: 2000-09-25
; SOFTWARE: PatentIn version 3.0
; NUMBER OF SEQ ID NOS: 568
; SEQ ID NO 564
; LENGTH: 5096
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-962-436-564

Query Match   21.0%; Score 291.2; DB 10; Length 5096;
Best Local Similarity 54.7%; Pred. No. 3.2e-82;
Matches 628; Conservative 0; Mismatches 508; Indels 12; Gaps 2;

Qy   157 TCCACCTTTTGTACTGTGGGGAGGCTGCATCGTCGTTTGTACATGGTTAGAAATCCATCGA 216
             |||||||||||||||| |||||||||||||||||||| ||||||||||||||||||||
Db   110 TCCGTGTTCCTGTTCGTGGCCCGAGACAACGGCGCGCTCAGCCTGAGCAGCACCTACCGC 169

Qy   217 AAGAATAGTGAAACTTACTGGATGACATACACCTTTCTTCTTTATGTTTTCATCCATT 276
             ||| ||||||| ||| |||| || |||||||||||||| |||||| ||||| || |
Db   170 TCGGGCGGGGACCGCATGTGGCAGGCGTGACGTTGCTTTTCCGCTACTACCGCCTTGGGCGC 229

Qy   277 ATGGTCCAGTTGACCCTCATTTTGTCCACAGAGATCTAGCCAAAGATAAACCGCTATCA 336
             || |||||||||||||||| |||||||||

Sequence 16902, Application US/09984761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 16902
; LENGTH: 668
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC005301.16
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.2
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.7
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.6
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.8
; OTHER INFORMATION: SWISSPROT HIT: P51811, EVALUE 5.00e-43
; OTHER INFORMATION: NT HIT: gi11418230, EVALUE 1.00e-100
; OTHER INFORMATION: EST_HUMAN HIT: BE791300.1, EVALUE 2.50e+00
US-09-864-761-16902

RESULT 7
US-09-864-761-16902   Query Match   19.6%;   Score 272.2;   DB 10;   Length 668;
                           Best Local Similarity 65.3%;   Pred. No. 9.6e-77;

Db   230 CTCGTGCAGCTCACGCTTCTTCCTGTACACCGCGACCGCCGCCCGCTCGTA 289
Qy   337 TTATTTATGCATCTAATCCTCTTGGGACCTGTTATCAGATGTTTGGAGGCCATGATTAAG 396
          |||||| ||||| |||||| ||||||||
Db   290 CTGCTGCTGCACCTGCTGCGAACTTGGGCCCCTTTTCAGGTGTTTTTGAAGTCTTCGCATC 349
Qy   397 TACCTCACACTGTGGAAGAAGAGGAGGACGGAGGAGCCCTATGTGCAGCTCAGCCTCACACCCGAAAG 456
          || |||||| |||||
Db   350 TACTTTC-------AGTCAGGCAACAATGAAGAGCCTTATGTCAGTATCACCAAGAAG 400
Qy   457 AAG--ATGCTAATAGATGGCGAGGAGTGCTGATAGAATGGGAGGTGGGCCACTCCATC 513
          ||| || |||| |||||| |||
Db   401 AGGCAAATGCCAAAAAATGCCTTCCAGAGGAGATTGAGAAGGAGGTGGGCCAGCGCAGAA 460
Qy   514 CGACCCCTGGCTATGCACCGCAATGCCTACAAACGTATGTCACAGATCCAAGCCTTCCTG 573
          ||||||||||| ||||||| |||||||||||||||||||
Db   461 GGCAAACTAATCACCCACCGATCAGCGTTCAGCCGGCGCGTCGGTGATCCAGGCTTTCTTG 520
Qy   574 GGCTCAGTGCCCCAGCTGACCTATCAGCTCTATGTGAGCCTGATCTCTGCAGAGGTTCCC 633
          ||||||| ||| ||||||
Db   521 GGCTCAGCCCCCAGCTGACCCTACAGCTGTACATAAGTGTCATGCAGCAGGACGTCACT 580
Qy   634 CTGGGTAGAGTTGTGCTAATGGTATTTTCCCTGGTATCTGTCACCTATGGGCCACCCTT 693
          | |||||| |||||| ||
Db   581 GTTGGGAAGAAGTCTTCCTCATGACCATATCCCTGTTGTCCATTGTGTATGGAGCCTTGCGC 640
Qy   694 TGCAAATATGTTGGCTATCCAGATACGATGCAAGTACTACAAGATTCGCCTTGGGCCACTA 753
          ||||| | ||||||| ||||| |||
Db   641 TGCAACATCCTAGCCATCAAAATCAAGTACGATGAGTATGAAGTGCAAAGTGAAGCCTCTG 700
Qy   754 GAAGTCCTCTGCATCACCATCGGCGGACATTGGAGATCACTTCCCGCCTCCTGATTCTG 813
          |||||| ||||||| ||||
Db   701 GCCTATGGTCGTATCTTCCTGTGGAGGAGCTTTGAGATTGCCACTCGAGTTGTAGTCCTG 760
Qy   814 GTGCTCTTCTCAGCCACTTGAAATTGAAGGCTGTGCCCTTCCTAGTGCTCAACTTCCTG 873
          ||||||| ||
Db   761 GTCCTCTTTACCTCCCGTCCGTCCTGAGACCTGGGTGGTTATAATACTCAACTTCTTC 820
Qy   874 ATCATCCTCTTTGAGCGCCTGGATTAAGTTCTCGGAGAAGTGGTGCCAGATGCCCAATAAC 933
          ||||||| ||| |||||
Db   821 AGTTTCTTCTTGTACCCCTGGATCTCTTCTCTGGTGCAGTGGTTCCCCATTCCTGAGAAC 880
Qy   934 ATTGAGAAAAACTTCAGCGCGGGTCGGCCACTCTGTCCTGATTTCAGTCACCATCCTC 993
          |||||| | ||||
Db   881 ATAGAGAGGCCCTCAGTAGAGTGGGCCACCACCATTGTACTATCCTTTCTAACTTTACTC 940
Qy   994 TATGCTGGCATCAACTTCTTCTTGCTCGTGGTCAGCTTGCAGTTGAGGTTGGCAGACAGAGAT 1053
          |||| |||||||
Db   941 TATACTGTGATCAACATGTTCTGTCGCTGGTCTGCGTCTGTACACGTGAAAATTGACAGCCCTGAC 1000
Qy   1054 CTCGTGACAAAGGGCAGAACTGGGGACATATGGGCCTGCACTATAGTGTGAGGTTGGTA 1113
          |||||| |||| ||||||
Db   1001 CTCATCAGCAGTCCCATAATTGTACCAGCTACTGGTGTATTACATGATAAGATTCATC 1060
Qy   1114 GAGAATGTGATCATGGTCTTGGGTTTTTAAGTTCTTGGAGTGAAAGTGTTACTGAATTAC 1173
          ||||||||
Db   1061 GAGAATGGCCATCCTCCTCCGTGGGTATCTTTTTCAAGACTGACATCTATATGTATGTG 1120
Qy   1174 TGTCATTCCTTGATTGCCTTGCAGCTCATTATTGCTTATCTGATTTCCATTGGCTTCATG 1233
          |||||||| ||||||| |
Db   1121 TGCGCACCTCGTGTTGGTCCTGCAGCTGCTCATTGGGTACTGCCACAGCCATTCTTCTTCATG 1180
Qy   1234 CTCCTTTTCTTCCAGTACTTGCATCCATTGCGCTCACTCTTCACCCATAATGTAGTAGAC 1293
          ||||||| |||
Db   1181 CTTGTATTCTATCAGTTCTTCCACCCTTGCAAAAAGCTCTTTTCTTCCAGTGTTTCTGAA 1240
Qy   1294 TACCTCCA 1301
          ||||||||
Db   1241 GGCTTTCA 1248

Matches 400; Conservative   0; Mismatches   213; Indels   0; Gaps   0;

```
Qy   657 ATTTTCCCTGGTATCTGTCACCTATGGGGCCACCCTTTGCAATATGTTGGCTATCCAGAT 716
         |||||||||||||||||||||||| |||  ||||||||||
Db     2 ATTTTCCCTGTTATCAGTTATCTTATGGGGCCATTCGCTGCAATATACTGGCCATCCAGAT 61

Qy   717 CAAGTACGATGACTACAAGAGATTCGCCTTGGGCCACTAGAAGTCCTCTGCATCACCATCTG 776
         ||||| ||||      ||| |||||||||||||||||
Db    62 CAGCAATGATGATGATACTACCATTAAGCTACCGCGATAGAATTCTTCGTGTCGTGATGTG 121

Qy   777 GCGGACACATTGGAGATCACTTCCCGCCTCCTGATTCGTGGTGCTCTTCTCAGCCACTTTGAA 836
         |||||||   ||||  |||  ||  |||||||||
Db   122 GCGGTTTTTGGAGGTTATCTCACGTGTAGTGACTCGGCCATTTTCATTGCATCTCTGAA 181

Qy   837 ATTGAAGGCTGTGCCCTTCCTAGTGCTCAACTTCCTGATCATCCTCTTTGAGCCCTGGAT 896
         | ||||||||||||||||||||||||||||||
Db   182 ACTGAAGAGCCTACCCGTTTGTTAATCATATATTTGTATCATTGTTGGCACCGTGGCT 241

Qy   897 TAAGTTCTGGAGAAGTGGTGCCCAGATGCCCAATAACATTGAGAAAAACTTCAGCGCGGGT 956
         |||| ||||||||    |||      ||||||||||  |||||||
Db   242 GGAGTTTTGGAAAAGTGGAGCTCATCTTCCTGGCAACAAAGAAAAATAATTCCAATATGGT 301

Qy   957 CGGCACTCTGGTGTCCTGATTTCAGTCACCATCCTCTATGCTGGCATCAACTTCTCCTTG 1016
         |||||||||  |||||||
Db   302 GGGTACAGTACTGATGCTTTTCTTGATCACACTGCTATATGCTGCCATCAACTTCCCCTG 361

Qy  1017 CTGTGTCAGCTTTGCAGTTGAGGTTGGCAGACAGAGATCTCGTCGACAAAGGGCAGAACTG 1076
         |||||||||||||||||||||||||||||||||||||
Db   362 CTGGTCAGCAGTGAAACTGCAGTTGTCAGATGACAAAATAATTGACGGGAGACAGAGGTG 421

Qy  1077 GGGACATATGGGCCTGCACTATAGTGTGAGGTTGGTAGAGAATGTGATCATGGTCTTGGT 1136
         ||||| ||||  ||||||
Db   422 GGGCCATAGAAATCCTCACACTACACAGCTTTCAGTTTTTTAGAAAAATGTGATAATGATATTGGT 481

Qy  1137 TTTTAAGTTCTTTGGAGTGAAAGTTGTTACTGAATTACTGTCCTTGATTGCCTTGCA 1196
         |||| |||  ||||||||||||||||||||  |||
Db   482 ATTTAGGTTCTTTGGAGGGAAAACTTGCTGAATTGTGTGAATTGTGTGACTCATTAATTGCCGTGCA 541

Qy  1197 GCTCATTATTGCTTATCTGATTTCCATTGGCTTCATGCTCCTCTTTTCTTCCAGTACTTGCA 1256
         ||||||||||||||||||      ||||||||||
Db   542 GCTCATCATAAGCTACCCATTGGCCACTATTGGGCTTTATGCTCCCTCTTATCAGTATTTGTA 601

Qy  1257 TCCATTGCGCTCA 1269
         ||||||
Db   602 CCCATGCGCAGTCA 614
```

RESULT 8
US-09-864-761-62
; Sequence 62, Application US/09864761
; Patent No. US20020048763A1
GENERAL INFORMATION:
  APPLICANT: Penn, Sharron G.
  APPLICANT: Rank, David R.
  APPLICANT: Hanzel, David K.
  APPLICANT: Chen, Wensheng
  TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
  TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
  FILE REFERENCE: Aeomica-X-1
  CURRENT APPLICATION NUMBER: US/09/864,761
  CURRENT FILING DATE: 2001-05-23
  PRIOR APPLICATION NUMBER: US 60/180,312
  PRIOR FILING DATE: 2000-02-04
  PRIOR APPLICATION NUMBER: US 60/207,456
  PRIOR FILING DATE: 2000-05-26
  PRIOR APPLICATION NUMBER: US 09/632,366
  PRIOR FILING DATE: 2000-08-03
  PRIOR APPLICATION NUMBER: GB 24263.6
  PRIOR FILING DATE: 2000-10-04
  PRIOR APPLICATION NUMBER: US 60/236,359
  PRIOR FILING DATE: 2000-09-27
  PRIOR APPLICATION NUMBER: PCT/US01/00666
  PRIOR FILING DATE: 2001-01-30

  PRIOR APPLICATION NUMBER: PCT/US01/00667
  PRIOR FILING DATE: 2001-01-30
  PRIOR APPLICATION NUMBER: PCT/US01/00664
  PRIOR FILING DATE: 2001-01-30
  PRIOR APPLICATION NUMBER: PCT/US01/00669
  PRIOR FILING DATE: 2001-01-30
  PRIOR APPLICATION NUMBER: PCT/US01/00665
  PRIOR FILING DATE: 2001-01-30
  PRIOR APPLICATION NUMBER: PCT/US01/00668
  PRIOR FILING DATE: 2001-01-30
  PRIOR APPLICATION NUMBER: PCT/US01/00663
  PRIOR FILING DATE: 2001-01-30
  PRIOR APPLICATION NUMBER: PCT/US01/00662
  PRIOR FILING DATE: 2001-01-30
  PRIOR APPLICATION NUMBER: PCT/US01/00661
  PRIOR FILING DATE: 2001-01-30
  PRIOR APPLICATION NUMBER: PCT/US01/00670
  PRIOR FILING DATE: 2001-01-30
  PRIOR APPLICATION NUMBER: US 60/234,687
  PRIOR FILING DATE: 2000-09-21
  PRIOR APPLICATION NUMBER: US 09/608,408
  PRIOR FILING DATE: 2000-06-30
  PRIOR APPLICATION NUMBER: US 09/774,203
  PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annomax Sequence Listing Engine vers. 1.1

SEQ ID NO 62
LENGTH: 471
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
  OTHER INFORMATION:
  OTHER INFORMATION: MAP TO AC005301.16
  OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.3
  OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.5
  OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.5
  OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.3
  OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.2
  OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.7
  OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.6
  OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.1
  OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.3
  OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.8
; US-09-864-761-62

Query Match   12.7%; Score 176.8; DB 10; Length 471;
Best Local Similarity 61.9%; Pred. No. 3.2e-46;
Matches 280; Conservative   0; Mismatches   172; Indels   0; Gaps   0;

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Qy   640 AGAGTTGTGCTAATGCATTTCCCTGTATCTGTCACCTATGGGGCCACCCTTTGCAAT 699
         |||||||| ||||   |||||||||||||||||||||||||||||
Db    19 ATAGCATTGCTGATGACATTTTCCCTGTTATCAGTTATCTTATGGGGCCCATTCGCTGCAAT 78

Qy   700 ATGTTGGCTATCCAGATCAAGTACGATCAAGTACGATGACTACAAGATTCGGCCTTGGGCCACTAGAAGTC 759
         ||||||||||  ||||||      ||| |||||||
Db    79 ATACTGGCCATCCAGATCAGCAATCAGCAATGATGATGATACTACCGATAGAATTC 138

Qy   760 CTCTGCATCACCATCTGGCGGACATTGGAGATCACTTCCCGGCCTCCTGATTCGTGGTGCTC 819
         ||||| ||||    |||  ||| |||||||||||   |||  ||||||
Db   139 TTCTGTGTCGTGATGTGGCGTTTTTGGAGGTTATCTCACGTGTAGTGACTCTGGCATTT 198

Qy   820 TTCTCAGCCACTTTGAAATTGAAGGCTGTGCCCTTCCTAGTGCTCAACTTCCTGATCATC 879
         |||||  ||||||      |  ||| |||||||
Db   199 TTCATTGCATCTCTGAAACTGAAGAGAGCCTACCCGTTTGTTAATCATATATTTGTATCA 258

Qy   880 CTCTTTGAGCCCTGATTAAGTTCTGGAGAAGTGGTGCCCAGATGCCCAATAACATTGAG 939
         |||  |||||||||      || ||||||||  |||||
Db   259 TTGTTGGCACCGTGGCTGGAGTTTTGGAAAAGTGGAGCTCATCTTCCTGGCAACAAAGAA 318

Qy   940 AAAAACTTCAGCGCGGGTCGGCACTCTGGTGTCCTGATTTCAGTCACCATCCTCTATGCT 999
         ||||||||||||  |||
Db   319 AATAATTCCAATATGGTGGGTACAGTACTGATGCTTTTCTTGATCACACTGCTATATGCT 378

Qy  1000 GGCATCAACTTCTCCTTGCTGTGTCAGCTTTGCAGTTGAGGTTGGCAGACAGAGATCTCGTC 1059
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Db   379 GCCATCAACTTCTCCTGCTGGTCAGCAGTGAAACTGCAGTTGTCAGATGACAAAATAATT 438
             ||||||||||||| ||||||||||| |||||| ||    ||     || ||||||||
Qy  1060 GACAAAGGGCAGAACTGGGGACATATGGGCCT 1091
         |||   |||  ||| ||||  |||||   ||
Db   439 GACGGGAGACAGAGGTGGGGCCATAGAATCCT 470
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RESULT 9
US-09-864-761-21423/c
; Sequence 21423, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
;; APPLICANT: Penn, Sharron G.
;; APPLICANT: Rank, David R.
;; APPLICANT: Hanzel, David K.
;; APPLICANT: Chen, Wensheng
;; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
;; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
;; FILE REFERENCE: Aeomica-X-1
;; CURRENT APPLICATION NUMBER: US/09/864,761
;; CURRENT FILING DATE: 2001-05-23
;; PRIOR APPLICATION NUMBER: US 60/180,312
;; PRIOR FILING DATE: 2000-02-04
;; PRIOR APPLICATION NUMBER: US 60/207,456
;; PRIOR FILING DATE: 2000-05-26
;; PRIOR APPLICATION NUMBER: US 09/632,366
;; PRIOR FILING DATE: 2000-08-03
;; PRIOR APPLICATION NUMBER: GB 24263.6
;; PRIOR FILING DATE: 2000-10-04
;; PRIOR APPLICATION NUMBER: US 60/236,359
;; PRIOR FILING DATE: 2000-09-27
;; PRIOR APPLICATION NUMBER: PCT/US01/00666
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00667
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00664
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00669
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00665
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00668
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00663
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00662
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00661
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00670
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: US 60/234,687
;; PRIOR FILING DATE: 2000-09-21
;; PRIOR APPLICATION NUMBER: US 09/608,408
;; PRIOR FILING DATE: 2000-06-30
;; PRIOR APPLICATION NUMBER: US 09/774,203
;; PRIOR FILING DATE: 2001-01-29
;; NUMBER OF SEQ ID NOS: 49117
;; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 21423
;; LENGTH: 384
;; TYPE: DNA
;; ORGANISM: Homo sapiens
;; FEATURE:
;; OTHER INFORMATION: MAP TO AC007064.22
;; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.1
;; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.92
;; OTHER INFORMATION: EST_HUMAN HIT: AI825017.1, EVALUE 3.60e-01
;; OTHER INFORMATION: NT_HIT: gi4759329, EVALUE 3.00e-59
;; OTHER INFORMATION: SWISSPROT HIT: P51811, EVALUE 5.00e-18
US-09-864-761-21423

Query Match   11.7%; Score 162; DB 10; Length 384;
Best Local Similarity 68.2%; Pred. No. 1.6e-41;
Matches 225; Conservative 0; Mismatches 105; Indels 0; Gaps 0;

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Qy   940 AAAAACTTCAGCGCGGTCGGCACTCTGTGGTCCTGATTCAGTCACCATCCTCTATGCT 999
             ||||||||||||||||||| |||||||||||||| ||||||  |||||
Db   384 AATAATTCCAATATGGTGGGTACAGTACTGATGCTTTTCTTGATCACACTGCTATATGCT 325

Qy  1000 GGCATCAACTTCTTCCTGCTGGCTGCAGCTTTGCAGTGAGGTTGGCAGCAGAGATCTCGTC 1059
         |||||||||||||||||||||||| |||||||| ||||||||||
Db   324 GCCATCAACTTCTTCCTGCTGGCTCAGCAGTGTCAGTGTGTCAGTGACAAAATAATT 265

Qy  1060 GACAAAGGGCAGAACTGGGGACATATGGGCCTCCACTATAGTGTGAGGTTGGTAGAGAAT 1119
         |||   |||  ||| ||||  ||||| ||||   |||||||||||||||
Db   264 GACGGGAGACAGAGGTGGGGCCATAGAATCCTACCACTACAGCTTTCAGTTTTTTAGAAAT 205

Qy  1120 GTGATCATGGTCTTGGTTTTAAGTTCTTTGGAGTGAAAGTGTTACTGAATTACTGTCAT 1179
         ||||| |||| | ||||  |||| ||||||||||||| | || |||||| || ||| | 
Db   204 GTGATAATGATATTGGTATTTAGGTTCTTTGGAGGGAAAACTTTGCTGAATTGTTGTGAC 145

Qy  1180 TCCTTGATTGCCTGCAGCTCATTATTGCTTATCGATTCTGATTTCATCATCCTCCTT 1239
         || || |||||| ||||||||| ||   || || |||   ||| |||| |||| |||
Db   144 TCATTAATTGCCGTGCAGCTCATCATAAGCTACCTATTTGGCCACTGGCTTTATGCTCCTC 85

Qy  1240 TTCTTCCAGTACTTGCGATCCATTGCGCTCA 1269
         |||  ||||| | |||  || ||| || |||
Db    84 TTCTATCAGTATTGTACCCATGGCAGTCA 55
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RESULT 10
US-09-864-761-4683/c
; Sequence 4683, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
;; APPLICANT: Penn, Sharron G.
;; APPLICANT: Rank, David R.
;; APPLICANT: Hanzel, David K.
;; APPLICANT: Chen, Wensheng
;; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
;; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
;; FILE REFERENCE: Aeomica-X-1
;; CURRENT APPLICATION NUMBER: US/09/864,761
;; CURRENT FILING DATE: 2001-05-23
;; PRIOR APPLICATION NUMBER: US 60/180,312
;; PRIOR FILING DATE: 2000-02-04
;; PRIOR APPLICATION NUMBER: US 60/207,456
;; PRIOR FILING DATE: 2000-05-26
;; PRIOR APPLICATION NUMBER: US 09/632,366
;; PRIOR FILING DATE: 2000-08-03
;; PRIOR APPLICATION NUMBER: GB 24263.6
;; PRIOR FILING DATE: 2000-10-04
;; PRIOR APPLICATION NUMBER: US 60/236,359
;; PRIOR FILING DATE: 2000-09-27
;; PRIOR APPLICATION NUMBER: PCT/US01/00666
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00667
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00662
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00664
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00669
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00665
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00668
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00663
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00661
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00670
;; PRIOR FILING DATE: 2001-01-30

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        PRIOR APPLICATION NUMBER: US 60/234,687
        PRIOR FILING DATE: 2000-09-21
        PRIOR APPLICATION NUMBER: US 09/608,408
        PRIOR FILING DATE: 2000-06-30
        PRIOR APPLICATION NUMBER: US 09/774,203
        PRIOR FILING DATE: 2001-01-29
        NUMBER OF SEQ ID NOS: 49117
        SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
        SEQ ID NO 4683
        LENGTH: 498
        TYPE: DNA
        ORGANISM: Homo sapiens
        FEATURE:
        OTHER INFORMATION: MAP TO AC007064.22
        OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.1
        OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.92
US-09-864-761-4683
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Query Match          10.2%;   Score 142;   DB 10;   Length 498;
Best Local Similarity   70.4%;   Pred. No. 5.1e-35;
Matches 190;   Conservative  0;   Mismatches 80;   Indels  0;   Gaps  0;

Qy  1000 GGCATCAACTTCTCTTGCTGGTCAGCTTTGCAGTTGAGGTTGGCAGACAGAGATCTCGTC 1059
              ||||||||||||  |||| ||||||| ||||||||||||||||||||| |||||
Db   498 GCCATCAACTTCTCCCTGCTCGGTCAGCAGTGAAACTGCAGTTGTCAGATGACAAAATAATT 439

Qy  1060 GACAAAGGGCAGAACTCGGGACATATGGGCCTGCACTATAGTGTGAGGTTGGTAGAGAAT 1119
              ||| ||||| ||||||   |||| ||||| |||| ||||||||||| ||
Db   438 GACGGGAGACAGAGGTGGGGCCATAGAATCCTACACTACAGCTTTCAGTTTTTAGAAAAT 379

Qy  1120 GTGATCATGGTCTTGGTTTTTAAGTTCTTTGGAGTGAAAGTGTTACTGAATTACTGTCAT 1179
              ||||| |||  ||| |||||| |||||||||||||  |||||  |||||| |||
Db   378 GTGATAATGATATTGGTATTTAGGTTCTTTGGAGGGAAAAACTTTGCTGAATTGTTGTGAC 319

Qy  1180 TCCTTGATTGCCTTGCAGCTCATTATTGCTTATCTGATTTCCATTGGCTTCATGCTCCTT 1239
              |||||| |||||||| ||| ||||| ||||| |||||||||||||||||||||
Db   318 TCATTAATTGCCGTGCAGCTCATCATAAGCTACCTATTGGCCACTGGCTTTATGCTCCTC 259

Qy  1240 TTCTTCCAGTACTTGCATCCATTGCGCTCA 1269
              |||||| ||| |||| |||||  ||
Db   258 TTCTCATCAGTATTTGTACCCATGGCAGTCA 229
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RESULT 11
US-09-864-761-19197
; Sequence 19197, Application US2002004876
; Patent No. US2002004876A1
 GENERAL INFORMATION:
        APPLICANT: Penn, Sharron G.
        APPLICANT: Rank, David R.
        APPLICANT: Hanzel, David K.
        APPLICANT: Chen, Wensheng
        TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
        TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
        FILE REFERENCE: Aeomica-X-1
        CURRENT APPLICATION NUMBER: US/09/864,761
        CURRENT FILING DATE: 2001-05-23
        PRIOR APPLICATION NUMBER: US 60/180,312
        PRIOR FILING DATE: 2000-02-04
        PRIOR APPLICATION NUMBER: US 60/207,456
        PRIOR FILING DATE: 2000-05-26
        PRIOR APPLICATION NUMBER: US 09/632,366
        PRIOR FILING DATE: 2000-08-03
        PRIOR APPLICATION NUMBER: GB 24263.6
        PRIOR FILING DATE: 2000-10-04
        PRIOR APPLICATION NUMBER: US 60/236,359
        PRIOR FILING DATE: 2000-09-27
        PRIOR APPLICATION NUMBER: PCT/US01/00666
        PRIOR FILING DATE: 2001-01-30
        PRIOR APPLICATION NUMBER: PCT/US01/00667
        PRIOR FILING DATE: 2001-01-30
        PRIOR APPLICATION NUMBER: PCT/US01/00664
        PRIOR FILING DATE: 2001-01-30
        PRIOR APPLICATION NUMBER: PCT/US01/00669
        PRIOR FILING DATE: 2001-01-30
        PRIOR APPLICATION NUMBER: PCT/US01/00665
        PRIOR FILING DATE: 2001-01-30
        PRIOR APPLICATION NUMBER: PCT/US01/00668
        PRIOR FILING DATE: 2001-01-30
        PRIOR APPLICATION NUMBER: PCT/US01/00663
        PRIOR FILING DATE: 2001-01-30
        PRIOR APPLICATION NUMBER: PCT/US01/00662
        PRIOR FILING DATE: 2001-01-30
        PRIOR APPLICATION NUMBER: PCT/US01/00661
        PRIOR FILING DATE: 2001-01-30
        PRIOR APPLICATION NUMBER: PCT/US01/00670
        PRIOR FILING DATE: 2001-01-30
        PRIOR APPLICATION NUMBER: US 60/234,687
        PRIOR FILING DATE: 2000-09-21
        PRIOR APPLICATION NUMBER: US 09/608,408
        PRIOR FILING DATE: 2000-06-30
        PRIOR APPLICATION NUMBER: US 09/774,203
        PRIOR FILING DATE: 2001-01-29
        NUMBER OF SEQ ID NOS: 49117
        SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
        SEQ ID NO 19197
        LENGTH: 294
        TYPE: DNA
        ORGANISM: Homo sapiens
        FEATURE:
        OTHER INFORMATION: MAP TO AL121577.1
        OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.2
        OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 2.3
        OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.6
        OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.8
        OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
        OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.5
        OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.2
        OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.2
        OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 2
        OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 3.3
        OTHER INFORMATION: NT HIT: gi10835266, EVALUE 0.00e+00
        OTHER INFORMATION: EST HUMAN HIT: AI697050.1, EVALUE 0.00e+00
        OTHER INFORMATION: SWISSPROT HIT: P51811, EVALUE 5.00e-44
US-09-864-761-19197
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Query Match                5.3%;    Score 73.2;   DB 10;   Length 294;
Best Local Similarity     58.3%;    Pred. No. 4.3e-13;
Matches 148;   Conservative  0;   Mismatches 103;   Indels  3;   Gaps  1;

Qy   413 AGAAAGAGGAGCAGGAGGAGGCCCTATGTCAGCCTCACCCGAAAGA---AGATGCTAATAG 469
              ||  ||||||  |||||||||||||||||||||||||||||||||   |||||||||
Db    28 AGTCAGGCAACAATGAAGAGCCTTATGTCAGTATCACCAAGAGAGGAGCAAATGCCAAAA 87

Qy   470 ATGGCCGAGGAGGTGCTGTATAGAATGGGAGGTGGGCCACTCCATCCGGACCCTGGCTATGC 529
              ||||||||||||||   ||  |||||||||||||| |||||||||||||||
Db    88 ATGGCCTCTCAGAGGAGGATTGAGAAGGAGGTGGGGCCAGGCCAGCAGAGGCAAACTAATCACCC 147

Qy   530 ACCGCAATGCTACAAACGTATGTCACAGATCCAAGCCTTCCTGGGCTCAGTGCCCCAGC 589
              |||||||||||  |||| ||||||||||||||||| ||||||||||||||||||||
Db   148 ACCGATCAGCGTTCAGCCGGCGTTCGCGTGATCCAGTCCGCCCCCAGC 207

Qy   590 TGACCTATCAGCTCTATGTGAGCCCATGTCGCGAGAGTTCCCCTCGGGTAGAGTTGTGC 649
              |||||| |||||||||| |||||  |||||| |||||||||||||||||||||
Db   208 TGACCCTACAGCTGTACATAAGTGTCATGCAGCAGGACGTCACTGTTGTTGGAAGAAGTACGT 267

Qy   650 TAATGGTATTTTCC 663
              ||  ||||||
Db   268 GTATTTTTATTTC 281
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RESULT 12
US-09-864-761-2467
; Sequence 2467, Application US/09864761
; Patent No. US2002004876A1
; GENERAL INFORMATION:
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Qy    470  ATGGCGAGGAGGTGCTGATAGAATGGGAGGTGGGCCACTCCATCCGGACCCTGGCTATGC  529
           ||||   |||   |||| |||||   |||||||||||   | : |||   |: :||
Db    345  ATGGCCTCTCAGGAGGATTGAGAAGGAGGTGGGCCAGGCAGGAAGGCAAACTAATCACCC  404

Qy    530  ACCGCAATGCCTACAAACGTATGTCACAGATCCAAGCCTTCCTGGGCTCAGTGCCCCAGC  589
           ||||    :|| ||||||     |||||||| |||||||||||||||||||  ||||||||
Db    405  ACCGATCAGCGGTTCAGCCGGCGTCGGTGATCCGGGTGATCCAGGCTTTCTGGGCTCAGCCCCCCAGC  464

Qy    590  TGACCTATCAGCT  602
           |||| |||||||
Db    465  TGACCCTACAGCT  477
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RESULT 13
US-09-864-761-10062/c
; Sequence 10062, Application US/09864761
; Patent No. US2002004876341
; GENERAL INFORMATION:
; ;   APPLICANT: Penn, Sharron G.
; ;   APPLICANT: Rank, David R.
; ;   APPLICANT: Hanzel, David K.
; ;   APPLICANT: Chen, Wensheng
; ;   TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; ;   TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; ;   FILE REFERENCE: Aeomica-X-1
; ;   CURRENT APPLICATION NUMBER: US/09/864,761
; ;   CURRENT FILING DATE: 2001-05-23
; ;   PRIOR APPLICATION NUMBER: US 60/180,312
; ;   PRIOR FILING DATE: 2000-02-04
; ;   PRIOR APPLICATION NUMBER: US 60/207,456
; ;   PRIOR FILING DATE: 2000-05-26
; ;   PRIOR APPLICATION NUMBER: US 09/632,366
; ;   PRIOR FILING DATE: 2000-08-03
; ;   PRIOR APPLICATION NUMBER: GB 24263.6
; ;   PRIOR FILING DATE: 2000-10-04
; ;   PRIOR APPLICATION NUMBER: US 60/236,359
; ;   PRIOR FILING DATE: 2000-09-27
; ;   PRIOR APPLICATION NUMBER: PCT/US01/00666
; ;   PRIOR FILING DATE: 2001-01-30
; ;   PRIOR APPLICATION NUMBER: PCT/US01/00664
; ;   PRIOR FILING DATE: 2001-01-30
; ;   PRIOR APPLICATION NUMBER: PCT/US01/00669
; ;   PRIOR FILING DATE: 2001-01-30
; ;   PRIOR APPLICATION NUMBER: PCT/US01/00665
; ;   PRIOR FILING DATE: 2001-01-30
; ;   PRIOR APPLICATION NUMBER: PCT/US01/00668
; ;   PRIOR FILING DATE: 2001-01-30
; ;   PRIOR APPLICATION NUMBER: PCT/US01/00663
; ;   PRIOR FILING DATE: 2001-01-30
; ;   PRIOR APPLICATION NUMBER: PCT/US01/00662
; ;   PRIOR FILING DATE: 2001-01-30
; ;   PRIOR APPLICATION NUMBER: PCT/US01/00661
; ;   PRIOR FILING DATE: 2001-01-30
; ;   PRIOR APPLICATION NUMBER: PCT/US01/00670
; ;   PRIOR FILING DATE: 2001-01-30
; ;   PRIOR APPLICATION NUMBER: US 60/234,687
; ;   PRIOR FILING DATE: 2000-09-21
; ;   PRIOR APPLICATION NUMBER: US 09/608,408
; ;   PRIOR FILING DATE: 2000-06-30
; ;   PRIOR APPLICATION NUMBER: US 09/774,203
; ;   PRIOR FILING DATE: 2001-01-29
; ;   NUMBER OF SEQ ID NOS: 49117
; ;   SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; ;   SEQ ID NO 10062
; ;   LENGTH: 486
; ;   TYPE: DNA
; ;   ORGANISM: Homo sapiens
; ;   FEATURE:
; ;   OTHER INFORMATION: MAP TO AC007064.22
; ;   OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 0.96
; ;   OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.1
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```
; ;   APPLICANT: Penn, Sharron G.
; ;   APPLICANT: Rank, David R.
; ;   APPLICANT: Hanzel, David K.
; ;   APPLICANT: Chen, Wensheng
; ;   TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; ;   TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; ;   FILE REFERENCE: Aeomica-X-1
; ;   CURRENT APPLICATION NUMBER: US/09/864,761
; ;   CURRENT FILING DATE: 2001-05-23
; ;   PRIOR APPLICATION NUMBER: US 60/180,312
; ;   PRIOR FILING DATE: 2000-02-04
; ;   PRIOR APPLICATION NUMBER: US 60/207,456
; ;   PRIOR FILING DATE: 2000-05-26
; ;   PRIOR APPLICATION NUMBER: US 09/632,366
; ;   PRIOR FILING DATE: 2000-08-03
; ;   PRIOR APPLICATION NUMBER: GB 24263.6
; ;   PRIOR FILING DATE: 2000-10-04
; ;   PRIOR APPLICATION NUMBER: US 60/236,359
; ;   PRIOR FILING DATE: 2000-09-27
; ;   PRIOR APPLICATION NUMBER: PCT/US01/00666
; ;   PRIOR FILING DATE: 2001-01-30
; ;   PRIOR APPLICATION NUMBER: PCT/US01/00664
; ;   PRIOR FILING DATE: 2001-01-30
; ;   PRIOR APPLICATION NUMBER: PCT/US01/00669
; ;   PRIOR FILING DATE: 2001-01-30
; ;   PRIOR APPLICATION NUMBER: PCT/US01/00665
; ;   PRIOR FILING DATE: 2001-01-30
; ;   PRIOR APPLICATION NUMBER: PCT/US01/00668
; ;   PRIOR FILING DATE: 2001-01-30
; ;   PRIOR APPLICATION NUMBER: PCT/US01/00663
; ;   PRIOR FILING DATE: 2001-01-30
; ;   PRIOR APPLICATION NUMBER: PCT/US01/00662
; ;   PRIOR FILING DATE: 2001-01-30
; ;   PRIOR APPLICATION NUMBER: PCT/US01/00661
; ;   PRIOR FILING DATE: 2001-01-30
; ;   PRIOR APPLICATION NUMBER: PCT/US01/00670
; ;   PRIOR FILING DATE: 2001-01-30
; ;   PRIOR APPLICATION NUMBER: US 60/234,687
; ;   PRIOR FILING DATE: 2000-09-21
; ;   PRIOR APPLICATION NUMBER: US 09/608,408
; ;   PRIOR FILING DATE: 2000-06-30
; ;   PRIOR APPLICATION NUMBER: US 09/774,203
; ;   PRIOR FILING DATE: 2001-01-29
; ;   NUMBER OF SEQ ID NOS: 49117
; ;   SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; ;   SEQ ID NO 2467
; ;   LENGTH: 477
; ;   TYPE: DNA
; ;   ORGANISM: Homo sapiens
; ;   FEATURE:
; ;   OTHER INFORMATION: MAP TO AL121577.1
; ;   OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.2
; ;   OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 2.3
; ;   OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.6
; ;   OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.8
; ;   OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
; ;   OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.5
; ;   OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.2
; ;   OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.2
; ;   OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 2
; ;   OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 3.3
US-09-864-761-2467
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Query Match       4.7%;    Score 65;    DB 10;    Length 477;
Best Local Similarity   62.2%;    Pred. No. 2.6e-10;
Matches 120;   Conservative   0;   Mismatches  70;   Indels  3;   Gaps  1;

Qy   413  AGAAAGAGGAGGAGGAGGCCCTATGTCAGCCTCACCCGAAAGA--AGATGCTAATAG  469
          ||    ||   || |||||||||||||||||      |||||      ||||| ||
Db   285  AGTCAGGCAACAATGAAGAGCCTTATGTCAGTATCACCAAGAGAGGCAAATGCCAAAAA  344
```

US-09-864-761-10062

Query Match   3.7%;   Score 51.6; DB 10; Length 486;
Best Local Similarity   56.5%;   Pred. No. 5.3e-06;
Matches 96; Conservative 0; Mismatches 74; Indels 0; Gaps   0;

```
Qy  483 GCTGATAGAATGGGAGGTGGGCCACTCCATCCGGACCCTGGCTATGCACCGCAATGCCTA 542
        |||||||| ||||| |||||||  ||| ||||||   |||||| |||
Db  390 GATGCTGGGAAAGGGAGGATTGCATTCTCAATCCGGATAATTTCATGCAGCAGAAGGCTTT 331

Qy  543 CAAACGTATGTCACAGATCCAAGCCTTCTCGGGTCAGTGCCCAGCTGACCTATCAGCT 602
        |||| |||  || ||||  ||||||
Db  330 CAAGTACATGTCAGTGATTCAGGCTTTTCTCGGTTCTGTCGTTCCACAATTAATTTTGCAGAT 271

Qy  603 CTATGTGAGCCGTGATCTCTGCAGAGGTTCCCCTGGGTAGAGTTGTGCTAA 652
        ||| ||||| | ||| |||||||
Db  270 GTATATCAGTCTCACTATACGAGAATGGCCTTTGAATAGAGGTAAGTTGA 221
```

RESULT 14
US-09-764-877-853/c
; Sequence 853, Application US/09764877
; Patent No. US20020147140A1
; GENERAL INFORMATION:
;   APPLICANT: Rosen et al.
;   TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
;   FILE REFERENCE: PC005
;   CURRENT APPLICATION NUMBER: US/09/764,877
;   CURRENT FILING DATE: 2001-01-17
;   Prior application data removed - refer to PALM or file wrapper
;   NUMBER OF SEQ ID NOS: 4031
;   SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 853
;   LENGTH: 832
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (824)
;   OTHER INFORMATION: n equals a,t,g, or c
US-09-764-877-853

Query Match   3.2%;   Score 45; DB 10; Length 832;
Best Local Similarity   50.2%;   Pred. No. 0.001;
Matches 111; Conservative 0; Mismatches 110; Indels 0; Gaps   0;

```
Qy 1118 ATGTGATCATGGTCTTGGTTTTAAGTTCTTTGGAGTGAAAGTGTTACTGAATTACTGTC 1177
                |||     ||||||||||||||||||| || |||||
Db  500 AGGCTATCATTGTCAGGGAATTCGAGATGCTTGGAGTAAAGTGATGGAGAGCAGCTATG 441

Qy 1178 ATTCCTTGATTGCCTTGCAGCTCATTATTGCTCATTATCCTGATTTCCATTGGCTTCATGCTCC 1237
        | |||| |||||   ||| |||| |||||| ||| ||||  ||| ||
Db  440 TCACTCTGAATCAAATCCTTCTTCTTCTCATTGTCAACTTATCCAGATGTGATTCAAACTCC 381

Qy 1238 TTTTCTTCCAGTACTTGCATCCATTGCGCTCACTCTTCACCCATAATGTAGTAGACTACC 1297
        |||   |    |||||  ||  ||||| |||||| ||| |||   |
Db  380 TTCACAGCTAACAATTTTTCCGAGCGTGTTCTCTCTCGGTGGGATTTTCTGTTTGGCCAGA 321

Qy 1298 TCCATTGTGTCTGCTGCTGTCACCAGCACCCTCGGACCAGGGTT 1338
        ||  |||||  |   ||| |||||  ||| ||
Db  320 ATCCTTGCTGTTAGTCTTTACAGTCTCCGAGGGATTCCAGTT 280
```

RESULT 15
US-09-902-941-1883/c
; Sequence 1883, Application US/09902941
; Patent No. US2002017295241
; GENERAL INFORMATION:
;   APPLICANT: Henderson, Robert A.
;   APPLICANT: Wang, Tongtong
;   APPLICANT: Watanabe, Yoshihiro
;   APPLICANT: Johnson, Jeffrey C.
;   APPLICANT: Retter, Marc W.
;   APPLICANT: Marnerakis, Margarita
;   APPLICANT: Carter, Darrick
;   APPLICANT: Fanger, Gary R.
;   APPLICANT: Vedvick, Thomas S.
;   APPLICANT: Bangur, Chaitanya S.
;   APPLICANT: McNabb, Andria
;   TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
;   TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
;   FILE REFERENCE: 210121.478C17
;   CURRENT APPLICATION NUMBER: US/09/902,941
;   CURRENT FILING DATE: 2001-07-10
;   NUMBER OF SEQ ID NOS: 2002
;   SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1883
;   LENGTH: 6799
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-902-941-1883

Query Match   2.8%;   Score 38.8; DB 9; Length 6799;
Best Local Similarity   50.0%;   Pred. No. 0.44;
Matches 97; Conservative 0; Mismatches 97; Indels 0; Gaps   0;

```
Qy  381 GGAGGCCATGATTAAGTAACTTCACACTGTGGAAGAAAGAGGACCAGGAGGAGCCCTATGT 440
        | |                ||   ||||| |||     ||||  |||||||||   ||
Db  859 GGGGATCCTGGAGGAGAAGCTGAAGCAGCTGGAGGAGGAGTGCCGGCAGAAGGAGGGCGGA 800

Qy  441 CAGCCTCACCCGAAAGAAGAATGCTAATAGATGGCGAGGAGGTGCTGATAGAATGGGAGGT 500
        | | |||  |  |    ||     ||  ||  | |  |||||  | || | |||| |
Db  799 GCGTGTCAGCTGGAGCTGGAGCTGACGGAGGTCAAGGAGGAGAGCCTCACCGACCGCTGGC 740

Qy  501 GGGGCACTCCATCCGGACCCTGGCTATGCACCGCAATGCCTACAAACGTATGTCACAGAT 560
        ||| |  || |||  | || ||||| |    ||   | || ||  | | |||
Db  739 GGGCGGAGTCACCCTGGGGCTGGCCATCGAGCCCATCCAGGACATCGAGTCCACAGT 680

Qy  561 CCAAGCCTTCCTGG 574
        | |   ||| |||
Db  679 GTGTGTCCTTCTGG 666
```

Search completed: March 30, 2003, 06:55:49
Job time : 128.239 secs